

1) Prisma ORM

⇒ Prisma Object Relational Mapping is a type of interaction with database or smart assistant that helps to talk to the database in a clean, easier way.

Prisma provides us schema file to define database content. It is type-safe database client for querying the database. It also provide migration system for managing changes on database structure.

Prisma ORM contain parts:-

Prisma client.

Prisma migrate.

Prisma studio

Prisma Schema allow developer to define their application model in an intuitive data modeling language.

2) MongoDB and SQL.

⇒ MongoDB is a NoSQL database that stores structure, semistucture & unstructure data as well. It store data in flexible "documents" (like JSON). SQL database like sqlite store only structured data in fixed "tables" with rows and column. So MongoDB is dynamic whereas SQL is static. MongoDB is better for fast data storing & fetching. SQL is better for fast data fetching.

Eg: In assignment we used MongoDB to store quotes as documents like `{text: "Be kind", author: "Unknown"}` instead of using SQL-style row.

3) Express Routing

- ↳ Routing in Express means setting up different paths (URL) that the server can respond to. Each route does something specific, like sending data, saving data or showing a page. Routes are created using methods like `app.get()` or `app.post()`.

In above assignment we created a route `GET/api/quotes` to fetch all quotes and `POST/api/quotes` to add a new one.

~~Express Router~~

Concept: Think Express as a bus station. Each route is a bus line that goes to different place in your app (like pages or action).

4) Fetch () in Javascript.

⇒ The fetch () function in JS lets the browser ask the server for data. It is used to call APIs & get the response without refreshing the page.

In Index.html we used fetch ('/api/quotes') to get quote data from the backend and show it in a list on the web page.

fetch () is like Ordering food.

You order (send request)

The server cooks (processes)

You get the meal (response).

You eat it (use the data).

5) Middleware in Express

⇒ Middleware is like a helper function in Express that runs before the final response is sent. It is useful for things like reading JSON data, logging etc, It can be built in or custom.

We used app.use (express.json ()) as middleware so our server could understand & handle json data in POST request.

